

ABSTRACT

A root canal plugging apparatus for dental work is provided. The apparatus includes a pen tip for compacting a filler material in a root canal, a pen for holding the 5 pen tip, a tapered needle for injecting the filler material into the root canal, and a gun for holding the needle. The pen tip is electrically connected to the pen. The pen tip has a hollow body, a heating element, and a temperature sensor. The body has a first end and a second 10 end. The first end is attached to the pen, and the second end is inserted into the root canal. The heating element is positioned inside the body at a predetermined distance from the second end, and the temperature sensor is positioned inside the body. The temperature sensor 15 measures the temperature at the second end.